Institute of Conservation and Ecology, University of Kent, M.A. Gofur Khan, Department of Zoology, Chittagong University and Indraneil Das, Madras Crocodile Bank Trust and an anonymous reviwer read the manuscript. We are grateful to all of them.

March 21, 1994

MD. FARID AHSAN MD. NURUL HAQUE MD. ABU SAEED

Department of Zoology, University of Chittagong, Chittagong 4331, Bangladesh.

REFERENCES

AHSAN, M.F. & M.N.HAQUE (1987): Bostami kachim. Bangla Academy Bijjnan Potrica (in Bangla). 13(2): 15-39.

A.HSAN, M.F., M.N. HAQUE & C.M. FUGLER (1991): Observations on Aspideretes nigricans (Anderson), a semi-domesticated endemic species of eastern Bangladesh. Amphibia Reptilia 12: 131-136.

AHSAN, M.F. & M.A. SAEED (1989): The Bostami turtle, *Trinonyx nigricans* Anderson: population status, distribution, historical background and length-weight relationship. *J. Bombay nat. Hist. Soc.* 86(1): 1-6.

Ahsan, M.F. & M.A. Saseed (1992): Some aspects of the breeding biology of the Bostami turtle, *Aspideretes nigricans*. *Hamadryad 17*.

KHAN, M.A.R. (1980): A 'holy' turtle of Bangladesh. Hombill 4: 7-11.
KHAN, M.A.R. (1982): Chelonians of Bangladesh and their conservation. J. Bombay nat. Hist. Soc. 79(1): 110-116.

MEYLAN, P.A. (1987): The phylogenetic relationships of soft-shelled turtles (Family Trionychidae). *Bull. American Mus. nat. Hist.* 186: 1-101.

22. OCCURRENCE OF THE INDIAN BLACK TURTLE *MELANOCHELYS TRIJUGA* IN SIMBALBARA SANCTUARY, HIMACHAL PRADESH

The Indian black turtle or pond terrapin (Melanochelys trijuga) is one of the most common and widespread of the Indian freshwater turtles. Seven subspecies have been described, of which four are distributed within Indian limits, namely peninsular black turtle (M. t. trijuga), Cochin black turtle (M.t. coronata), Bangladesh black turtle (M.t. indopeninsularis) and Sri Lankan black turtle (M.t. thermalis). The others, namely the Burmese black turtle (M.t. edeniana), Parker's black turtle (M.t. parkeri) and Thai black turtle (M.t. wiroti) are distributed in Burma, Sri Lanka and Thailand, respectively. Daniel (1983) reported Melanochelys trijuga to be a peninsular species (below 20° N latitudes), with a possibility of it occurring further northwards. However, more recent surveys have revealed that it is distributed as far as north-west Bihar (Valmiki Nagar, West Champaran; Moll and Vijaya 1986), Nepal (Royal Chitwan National Park; Dinerstein et al. 1987) and in north-eastern India (Assam and Meghalaya; Das 1990). In this paper, we report the occurrence of Melanochelys trijuga in Simbalbara Sanctuary, Himachal Pradesh.

Simbalbara is a 19 sq. km sanctuary which lies in the Shiwalik region (Outer Himalaya) in Sirmaur District of Himachal Pradesh. The sanctuary is covered by moist salbearing forests (Type 3C/C₂ of Champion and Seth 1968) and is the westernmost limit of sal (Shorea robusta) distribution in India. The valleys and low-lying reverine areas have sal forests dominated by Shorea robusta - Ougeinia ougeinensis — Buchanania lanzan associates, whereas, the hills have mixed forests dominated by Anogeissus latifolia

— Acacia catechu — Boswellia serrata associates.

On 18th April 1993, one of the authors (A.P.) collected a specimen of *Melanochelys trijuga* in the sal forest. This specimen was found about 10 m from a perennial stream at around 14:15 hours (alt. 450 m.s.l.). The turtle, a male was apparently feeding when first located in a thick layer of sal leaves. It was photographed and released. The posterior marginals were broken indicating a possible attempt of predation on this individual. The turtle excreted on being handled, the faeces showing remains of leaves, ants and crustaceans. The turtle was active and moving although the temperature was 41° C.

On 6th June 1993, the second author (TJ.) collected and photographed another live specimen of the same species. This individual was also an adult male and was located around 5 m from a stream, covered with sal leaves. The specimen had a broken marginal scale and was found c. one kilometre upstream from where the former specimen was located. Its morphometric measurements were as follows: straight carapace length: 194 mm, straight carapace width: 142 mm and shell height: 68 mm. Enquiries with locals about the frequency of its sightings, revealed that this species is common all along the edge of the river and in the forested regions with streams and pools, in Simbalbara Sanctuary.

The seven subspecies that are currently recognized, are differentiated predominantly on head coloration. Although the head was blackish in colour, no distinct characteristics for subspecific identification were observed. Moll and Vijaya (1986) had indicated that the subspecies *M.t. indopeninsularis* may be

distributed further north-west in parts of Uttar Pradesh and Nepal. Recently, Das (1991) has also recorded M.t. indopeninsularis from Corbett National Park (Uttar Pradesh). The specimens observed at Simbalbara Sanctuary are thus suspected to be M.t. indopeninsularis. Nonetheless, the presence of this species in Himachal Pradesh, northwest of its previously known range, is a record of considerable importance. We suggest that more survey and collection of specimens be made for allocation of subspecies and commenting further on their distribution.

ACKNOWLEDGEMENTS

We are grateful to the Director, Wildlife Institute

of India and the Forest Department of Himachal Pradesh for permissions and logistic support extended to us during our research projects in Simbalbara Sanctuary. We thank Dr. S. Bhupathy for commenting on an earlier draft of this paper.

May 24, 1994

ANAND PENDHARKAR

Wildlife Institute of India, Post Box No. 18, Chandrabani, Dehra Dun 248 001.

TOM JENNER

Institute of Ecology and Resource Management, University of Edinburgh, West Mains Road, Edinburgh, EH9 3JG, U.K.

REFERENCES

Champion, H.J. & Seih, S.K. (1968): A revised survey of forest types of India. Manager of Publications, Government of India, Delhi. 404 pp.

DANIEL, J.C. (1983): The book of Indian Reptiles. *Bombay Natural History Society, Bombay*. 141 pp.

Das, I. (1990): Distributional records for chelonians from Northeastern India. J. Bombay nat. Hist. Soc. 87(1): 91-97. Das, I. (1991): Colour guide to the turtles and tortoises of the Indian Subcontinent. R & A Publishing Ltd., Portishead. 133 pp.

DINERSTEIN, E., G.R. ZUG & J.C. MITCHELL (1987): Notes on the biology of *Melanochelys* (Reptilia, Testudines, Emydidae) in the Terai of Nepal. *J. Bombay nat. Hist. Soc.* 84(3): 221-222.

Moll, E.O. & J. Vijaya (1986): Distributional records for some Indian turtles *J.Bombay nat. Hist. Soc.* 83(1): 57-62.

23. PRESENCE OF THE COMMON INDIAN BRONZEBACK SNAKE (DENDRELAPHIS TRISTIS) IN RAJASTHAN

The common Indian bronzeback or Tree Snake (Dendrelaphis tristis) is a highly arboreal snake, living almost entirely on trees and shrubs. According to Daniel (1983 THE BOOK OF INDIAN REPTILES), it is distributed in peninsular India, Gangetic Plain and Himalayan foothills. It is worth noting that this snake is present in the southern part of Rajasthan State where it is locally called Udani, i.e., one which flies. This name is derived from the rapid movement of the snake. This snake has been seen by me many times in the dense forests of Jhadol and Ogana Forest Ranges of Udaipur (North) Forest Division. These forests are rich in plant species. The major plant species are: Tectona grandis, Butea monosperma, Wrightia tinctoria. W. tomentosa, Diospyros melanoxylon, D. montana var. cordifolia,

Santalum album, Saccopetalum tomentosa, Sterculia urens, Lannea coromandelica, Alangium salvifolium, Anogeissus latifolia, A. sericea, Acacia catechu, Albizia procera, Dalbergia paniculata, Syzygium heyneanum, Mitragyna parvifolia, Aegle marmelosa, Limonia acidissima, Pongamia pinnata, etc. The density of vegetation is high in many pockets, where crown contact stage prevails round the year even in the summer. This condition presumably facilitates movement of the tree snake from one tree to another.

July 29, 1994

SATISH KUMAR SHARMA

Range Forest Officer, Aravalli Afforestation Programme, Jhadol (F.), Distt. Udaipur (Raj.) 313 702.

24. UNUSUAL CAUDAL SCALES OF BUFF-STRIPED KEELBACK AMPHIESMA STOLATA (LINNAEUS)

On 18.7.1993, I captured a 417 mm long buff-striped keelback snake, *Amphiesma stolata* (Linnaeus) from Mahipal Reserve Forest Block in southern Aravallis. Its caudal scales had an unusual arrangement pattern. The

arrangement of anal and caudal scales (from cloaca to tail end) is given below:

Anal Paired Caudals (1 to 4) Paired